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Application No. 10/673,200
Amendment dated June 4, 2007
Reply to Office Action of January 4, 2007

Docket No.: 0941-1876PUS1

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An ~~effective number of gray levels image~~ detection apparatus ~~is to determine for determining an the~~ effective number of gray levels of a display while showing motion images, ~~which detection apparatus comprising:~~

an image generation means for generating a still image and ~~its a moving image, the moving image being a duplication of the still image but with~~ adjustable motion vectors, and then for providing an interested display to show the ~~above mentioned two images still image and the moving image at the same time; time,~~ wherein the still image ~~can present presents~~ the gray level capability of the display while showing still images; ~~and~~

an examination means for ~~determine using the moving image to determine the~~ effective number of gray levels of the display while showing ~~motion moving images from the above mentioned motion image.~~

2. (Currently Amended) The apparatus ~~as of~~ claim 1, wherein ~~said the~~ gray levels of the still image are adjustable.

3. (Currently Amended) The apparatus ~~as of~~ claim 1, wherein ~~said the motion image is the duplication of the said still image but with~~ adjustable motion vectors include moving speed and direction.

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4. (Currently Amended) The apparatus ~~as of~~ claim 3, wherein said the moving speed and direction ~~of the moving image can be either automatically or manually adjusted or by manually operated.~~

5. (Currently Amended) The apparatus ~~as of~~ claim 1, wherein said the examined examination means ~~can be is~~ either ~~real a human eyes eye~~ or a human eyes eye simulator which simulates the detection behaviors of ~~real the human eyeseye.~~

6. (Currently Amended) A ~~effective number of gray levels detection~~ apparatus is ~~to determine for determining an the effective number of gray levels of a display while showing motion images, which detection apparatus comprising:~~

a visual simulator for simulating visual detection and recognition; and

an image generation means for generating a still image and a moving image, the moving image being a its duplication of the still image but with with adjustable motion vectors, and then for providing an interested display to show the above-mentioned two images still image and the moving image at the same time, time, wherein the still image can present presents the gray level capability of the display while showing still images; and

an examination means for ~~determine using the moving image to determine the gray level capability of the display while showing motion moving images from the above-mentioned motion image which is a duplication of the still image.~~

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Docket No.: 0941-1876PUS1

7. (Currently Amended) The apparatus ~~as of~~ claim 6, wherein ~~said the~~ visual simulator ~~can be is~~ either a specified apparatus or a computer system with at least one human eyes-eye simulation programsprogram.

8. (Currently Amended) The apparatus ~~as of~~ claim 6, wherein ~~said the~~ gray levels of the still image are adjustable.

9. (Currently Amended) The apparatus ~~as of~~ claim 6, wherein ~~said the motion image is the duplication of the said still image but with adjustable~~ motion vectors include moving speed and direction.

10. (Currently Amended) The apparatus ~~as of~~ claim 9, wherein ~~said the~~ moving speed and direction of the moving image can be either automatically or manually ~~adjusted or by manually~~ operated.

11. (Currently Amended) ~~An effective number of gray levels detection~~ A method is to determine for determining an the effective number of gray levels of a display while showing motion images, ~~which detection method comprising:~~

~~Generating~~ generating a still image and a moving image by an image generating means, the moving image being a its duplication but of the still image with adjustable moving speed and direction, ~~the duplication is referred as a motion image hereinafter, by an image generating means first, and then;~~

Application No. 10/673,200
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showing the ~~images still image and the moving image on the a~~ screen;
adjusting the moving speed and direction of the moving image; and
determining the discrimination of adjacent gray levels of the moving image.

12. (Currently Amended) The method ~~as of~~ claim 11, wherein ~~said the~~ number of gray levels of ~~a the~~ display while showing moving images is not lost if ~~the~~ edge of adjacent gray levels of the moving image can be discriminated.

13. (Currently Amended) The method ~~as of~~ claim 11, wherein ~~said the~~ number of gray levels of a display while showing moving images is lost if ~~the~~ edge of adjacent gray levels of the moving image ~~can not cannot~~ be discriminated.

14. (Currently Amended) The method ~~as of~~ claim 11, wherein ~~said the~~ gray levels, moving speed, and ~~moving direction~~ are adjustable for detecting the gray level capability of the display while showing different moving pictures.

15. (Currently Amended) The method ~~as of~~ claim 11, wherein ~~said at least one of the~~ gray levels, moving speed, and direction of the still image and the moving image ~~can be are~~ either automatically or manually adjusted ~~or by manually operated~~.